

Abstracts

Complex Solitons in a Superconductive Medium (Short Papers)

K. Hayata and M. Koshiba. "Complex Solitons in a Superconductive Medium (Short Papers)." 1995 Transactions on Microwave Theory and Techniques 43.12 (Dec. 1995, Part I [T-MTT]): 2710-2713.

We show analytically that a type-II superconductor may support short-range electromagnetic spatial solitons with a complex propagation constant. A theoretical model based on the Ginzburg-Landau theory is used. Analytical results for the complex solitons predict unique features that cannot be found in conventional solitons in normal (superconductive) media.

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